

Application No. 09/681,817
Reply to Office Action of April 25, 2005

RD28432-1

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1. (Currently amended) A method for manufacturing a data storage media, comprising:

disposing an identifier layer onto a surface of a stamper, said stamper having primary surface features on a first side of said stamper opposite said identifier layer, wherein said identifier layer comprising a managed heat transfer layer is a managed heat transfer layer comprising a material selected from the group consisting of polyimide, polyamideimide, polyamide, polysulfone, polyethersulfone, polytetrafluoroethylene, polyetherketone, and blends, copolymers, mixtures, reaction products, and composites comprising at least one of the foregoing materials;

forming secondary features on an exposed surface of said identifier layer;

installing said stamper into a mold;

injecting a molten plastic material into the mold, wherein said molten plastic material physically contacts said first side; and

cooling said plastic material to form said data storage media, such that a positive image of said primary surface features and of said secondary features are formed into at least a portion of a surface of said plastic material.

Claim 2. (Original) The method of Claim 1 further comprising forming said secondary features with a laser beam.

Claim 3. (Original) The method of Claim 2, wherein said laser beam has wavelength of about 248 nm to about 308 nm.

Claim 4. (Original) The method of Claim 1 further comprising forming said

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RD28432-1

secondary features by a plasma etching.

Claim 5. (Original) The method of Claim 1 further comprising forming said secondary features by photolithography.

Claim 6. (cancelled)

Claim 7. (Currently amended) The method of Claim 1 ~~Claim 6~~, wherein said plastic material comprises polyimides.

Claim 8. (Original) The method of Claim 1 wherein said secondary features have valleys having a size equal to or greater than about 25 μm in valley width.

Claim 9. (Original) The method of Claim 8, wherein said valley width is greater than or equal to about 30 μm .

Claim 10. (Original) The method of Claim 9, wherein said valley width is greater than or equal to about 50 μm .

Claim 11. (Original) The method of Claim 1 wherein said secondary valley features have peaks having a peak width of greater than or equal to about 1 μm .

Claim 12. (Original) The method of Claim 11, wherein said peak width is greater than or equal to about 5 μm .

Claim 13. (Original) The method of Claim 12, wherein said peak width is greater than or equal to about 10 μm .

Application No. 09/681,817
Reply to Office Action of April 25, 2005

RD28432-1

Claim 14. (Original) The method of Claim 1 further comprising spin coating said identifier layer onto said stamper.

Claim 15. (Original) The method of Claim 1, wherein disposing said identifier layer onto said surface further comprises a method selected from the group consisting of bonding laminating, vapor deposition, spraying, sputtering, and combinations comprising at least one of the foregoing methods.

Claim 16. (Original) The method of Claim 1, wherein disposing said identifier layer on said surface further comprises forming said identifier layer and laminating said identifier layer to said stamper.

Claim 17. (Original) The method of Claim 1 wherein said secondary features have a depth of about 0.05 μm to about 5.0 μm .

Claim 18. (Original) The method of Claim 1 wherein said secondary features have a depth of greater than or equal to about 5.0 μm .

Claims 19 – 24 (Cancelled)

Claim 25. (Original) A data storage media produced in accordance with the method of Claim 1.